RIYAZ FAIZULLABHOY

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EDUCATION:

8/11 – Present **University of California, Berkeley '15** Berkeley, CA

- B.S. Electrical Engineering and Computer Science (EECS)
- Overall GPA: 3.98, Major GPA: 4.00; EECS Honors Degree Program Member
- Member and Officer of Eta Kappa Nu – EECS Honor Society
  - Tutoring Officer: 2012 – 2013, Department Relations Officer: 2014
- Relevant coursework:
  - Data Structures and Algorithms (Java) – CS 61B A+
  - Artificial Intelligence (Python) – CS 188 A+
  - Efficient Algorithms and Intractable Problems – CS 170 A
- Current: Machine Learning – CS 189, Computer Security – CS 161

SKILLS AND INTERESTS:

Programming Languages: Proficient in Python, Java, C; basic HTML, CSS, JavaScript
Frameworks: Hadoop (also with Amazon EC2), Android SDK/NDK development
Software: Proficient with Eclipse IDE, Vim, Sublime, Git, Perforce, Ant, LaTeX
Interests: Computing in science, big data, mobile devices, website design, int'l travel

EXPERIENCE:

8/13 – Present **UC Berkeley EECS Department – Machine Structures - CS 61C TA** Berkeley, CA

- Organized and lead multiple hour-long discussion sections every week to reinforce material taught in lecture sections of the class, generated presentational material and example problems. Held weekly laboratory sections to supervise hands-on learning exercises, as well as office hours to assist students with their questions
- Designed and graded homework questions, lab exercises, project revisions, and exam problems. Assisted with the logistics and organization for a class size of 550

5/13 – 8/13 **Qualcomm – Software Engineer Intern** San Diego, CA

- Designed and implemented features for an Android application using the Android SDK and NDK to test all aspects of the newest Qualcomm Snapdragon chipsets on test devices in Qualcomm offices worldwide. Features included audio playback, network diagnostic check via Iperf, and graphics intensive benchmark tests
- Rapidly detected, debugged, and resolved application issues on a daily basis
- Deployed a Jetty web server with Jackson and Jersey RESTful APIs to interface with test devices, report device status, and integrate with specific application features

6/12 – 6/13 **Lab for Mathematical and Computational Biology – Researcher** Berkeley, CA

- Developed tools in Python of minimal algorithmic complexity to allow for high-throughput RNA or DNA sequencing through large amounts of input data
- Added tools to the eXpress DNA and RNA sequencing tool to benefit user experience, wrote parsers for varying file formats and manipulated data using the PySam/Samtools API to standardize input amongst all users to minimize user error
- Wrote detailed and organized documentation for the Python tools using Sphinx